

ABSTRACT

A base rolling engine for collapsing data packages stored in a data transfer and synchronization system. A first data package is provided. The first data package has a first transaction including an identification number, an action, and a plurality of fields. Each field has an attribute representing change information. A  
5 second data package is also provided. The second data package has a second transaction made subsequent to the first transaction. The second transaction has an identification number, an action, and a field with an attribute. The base rolling engine determines whether the identification number of the second transaction  
10 corresponds to the identification number of the first transaction. The base rolling engine also determines whether the field of the second transaction corresponds to one of the fields of the first transaction. When the identification numbers of the first and second transactions correspond to one another, and the field of the second transaction corresponds to one of the fields of the first transaction, the first and  
15 second data packages are combined. A combined data package is thus defined having a combined transaction with the identification number. The combined data package replaces the second data package, and the first data package is deleted.

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